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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/535,582	05/18/2005	Naoki Kimura	TOYA115.014APC	1733
20995	7590	07/06/2007	EXAMINER	
KNOBBE MARTENS OLSON & BEAR LLP			NAFF, DAVID M	
2040 MAIN STREET			ART UNIT	PAPER NUMBER
FOURTEENTH FLOOR			1657	
IRVINE, CA 92614				
NOTIFICATION DATE		DELIVERY MODE		
07/06/2007		ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

jcartee@kmob.com
eOAPilot@kmob.com

Office Action Summary	Application No.	Applicant(s)
	10/535,582	KIMURA ET AL.
	Examiner	Art Unit
	David M. Naff	1657

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 18 May 2005.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-8 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 18 May 2005 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date 8/1/05, 6/5/07.
- 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application
- 6) Other: _____.

DETAILED ACTION

A preliminary amendment of 5/18/05 amended the specification and claims 3-5.

Claims examined on the merits are 1-8, which are all claims in 5 the application.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

10 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 2, 7 and 8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out 15 and distinctly claim the subject matter which applicant regards as the invention.

Claims 2 and 7 are unclear as to how claims 1 and 6 are further limiting by the wavelength range of 220-300 nm since claims 1 and 6 require only a wavelength of 280 nm. Claims 2 and 7 appear be 20 broadening claims 1 and 6 to wavelengths other than 280nm. A dependent claim cannot broaden a claim on which it depends. The dependent claim can only further limit another claim.

In line 2 of claim 8, there is not clear antecedent basis for "the nucleic acid-immobilized carrier". This recitation is also 25 unclear as to whether the carrier or nucleic acid is immobilized. The claim is further unclear whether the analysis use required is a method

Art Unit: 1657

of using the nucleic acid-immobilized carrier for analysis, or is an intended use.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35

5 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

10 (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

15 Claims 1-8 are rejected under 35 U.S.C. 102(e) as being

anticipated by Kimura et al (7,037,649 B2).

20 The claims are drawn to a method of immobilizing a biomolecule on a carrier by spotting a solution of the biomolecule on the carrier, and irradiating the carrier with an ultraviolet ray having a component of 280 nm. The carrier may be a metal (claim 1), and the ultraviolet ray may have a wavelength of 220-300 nm (claims 2 and 7). The dose of 25 ultraviolet ray can be 100 mj/cm² and the biomolecule can be a nucleic acid.

Kimura et al disclose immobilizing a nucleic acid on a carrier,

which can be a metal (col 5, line 34), by spotting a DNA solution on the carrier (col 8, line 53), and irradiating with ultraviolet light

30 having a wavelength of 220-380 nm at a dose of 100-2000 mj/cm² (col 7, lines 13-20).

Art Unit: 1657

Kimura et al disclose a method of immobilizing that is the same as presently claimed. A metal within the scope of claim 3 will be inherently a metal used by Kimura et al as a carrier. The immobilized nucleic acid of Kimura et al is used in a method of detecting a 5 nucleic acid by hybridization (col 18, lines 55-58).

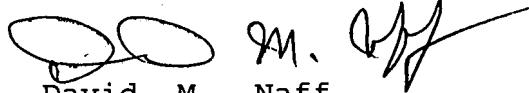
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David M. Naff whose telephone number is 571-272-0920. The examiner can normally be 10 reached on Monday-Friday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jon Weber can be reached on 571-272-0925. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1657

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for 5 unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer 10 Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



David M. Naff
Primary Examiner
Art Unit 1657

DMN

15 6/22/07